INTERNATIONAL SEARCH REPORT

International application No

PCT/US04/43043

			<del></del>				
A CLASSIFICATION OF SUBJECT MATTER							
IPC(7) E06B 3/32							
US CL 160/89 According to International Patent Classification (IPC) or to both national classification and IPC							
B FIELDS SEARCHED							
i .	cumentation searched (classification system followed biology, 84 04,84 05,1 67R	by classificat	ion symbols)				
3 3 1885, 5, 5, 5, 5, 6, 7							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
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C POCH	MENTS CONSIDERED TO BE DELEVINE						
<u> </u>	MENTS CONSIDERED TO BE RELEVANT		.60				
Category *		ppropriate,		Relevant to claim No			
	US 6,033,504 A (JUDKINS) 07 March 2000 (07 03	2000), see	entile document	1,8,21-23,37			
Y-				36,39			
х	US 2002/0043347 A (RUPEL) 18 April 2002 (18 04	2002), see	entire document	15,21-23,37,38			
Y				36,39			
, ,	115 5 701 200 A (WATANADE) 11 A . 1000 (1						
Y	US 5,791,390 A (WATANABE) 11 August 1998 (1	1 08 1998),	see entire document	36,39			
			j				
l							
Foundation	decorate and listed in the continuous of CD C		Samuel Carilla				
	documents are listed in the continuation of Box C		See patent family annex				
• Spe	ecial catego Ties of cited documents	"P"	later document published after the internal date and not in conflict with the application				
	defining the general state of the art which is not considered to be of		principle or theory underlying the invention				
particular n	eievance	"X"	document of particular relevance, the cla	imed invention cannot be			
"E" earlier appli	ication or patent published on or after the international filing date		considered novel or cannot be considered				
	which may throw doubts on priority claim(s) or which is cited to		when the document is taken alone				
establish th	ne publication date of another citation or other special reason (as	<b>"</b> Y"	document of particular relevance, the cla				
specified)			with one or more other such documents,				
"O" document r	referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art				
	published pπor to the international filing date but later than the	-&-	document member of the same patent fan	nity			
priority date claimed							
Date of the actual completion of the international search			of the innteernational search	report			
30 January 2006 (30 0 1 2006)			officer Chilcot JJ DWW.	1			
Name and mailing address of the ISA/US			officer				
Mail Stop PCT, Attn ISA/US			Chilcot JJ DWW				
	nissioner for Patents Box 1450	re-chard	Cinicol , J. C. J.	ł			
	Alexandria, Virginia 22313-1450						
Facsimile No							
orm PCT/ISA/21	0 (second sheet) (April 2005)						

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/43043

Box No	. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)		
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	]	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	]	Claims Nos.: _ because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No.	Ill	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This Inter Please Se	rnatio	onal Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet		
1	] ] ]	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. K		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1,8,15,17/15,21-23,36-39  otest  The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.  The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.  No protest accompanied the payment of additional search fees.		

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2005)

INTERNATIONAL SEARCH REPORT	International application No. PCT/US04743043				
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains claims directed to more than one species of the generic invention because they are not so linked as to form a single general inventive concept	ention. These species are deemed to lack unity of				
In order for more than one species to be examined, the appropriate additional examinate					
Group 1: Figs. l-4;5-6C;7-8B;9A-D;10A-D;1 lA-D.12A-DUSA-BjWA-DjISA-Dil θ, D;23A-D;24A-E;25A-C;26A-H;26J-L;27A-B;27K-M;27N-U;28A-B;29A-B;30A-B;31	A-Q 17A-QISA-DjigA-D^OA-D^IA-D^A- A;32A-E.				
Group 2: Figs. 38A-B;39-41;42-44;45-47;48A-B;49A-B;50A-B;51A-B;52-58;59-66;67-69;70-73B;74-80 <sub>1</sub> 86-92,94,95;81-84,93.					
One species of each group must be selected. The structure of the species selected from group 1 must be disclosed as being compatible with the selected species of group 2.					
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Form PCT/ISA/210 (extra sheet) (April 2005)